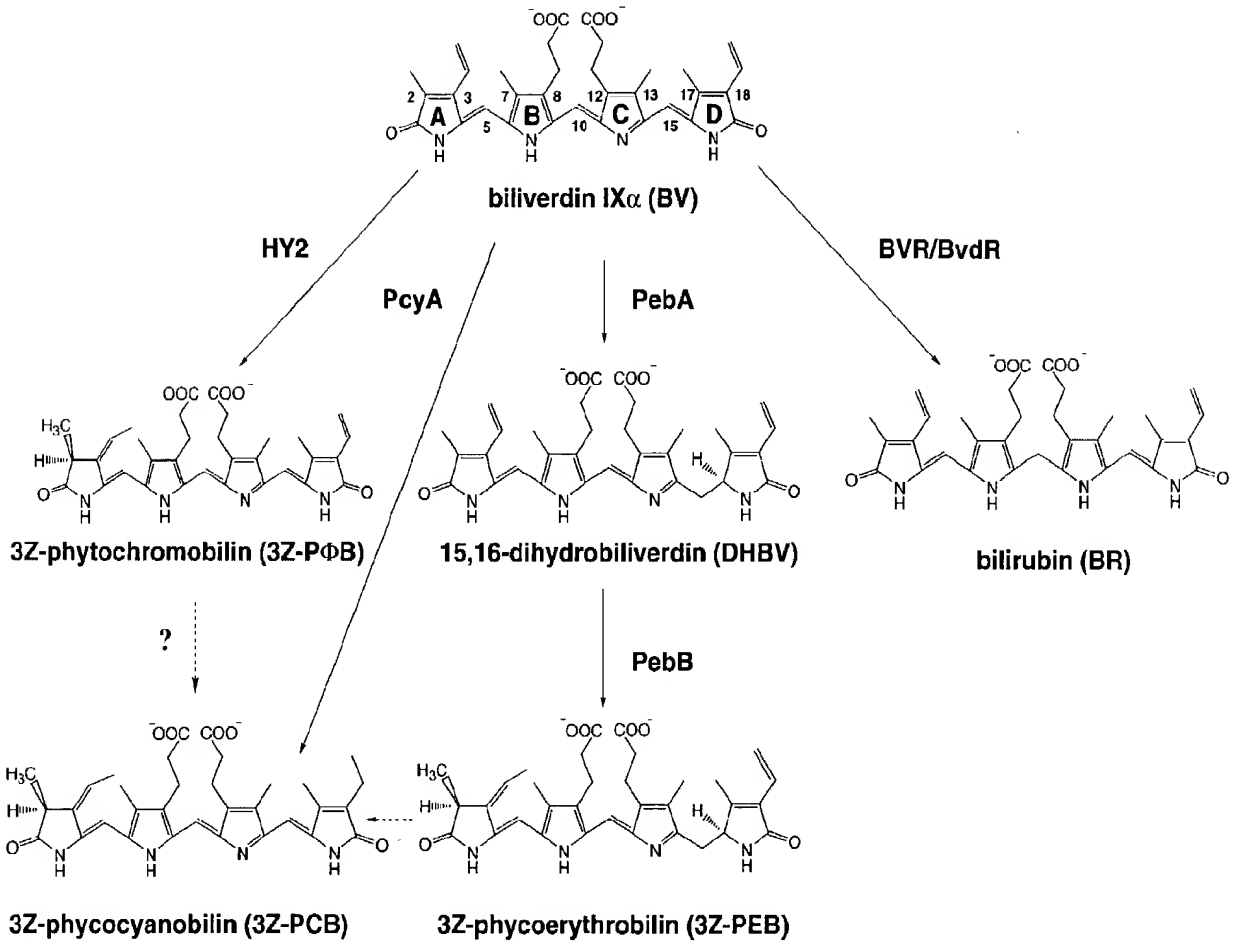

Fig. 1

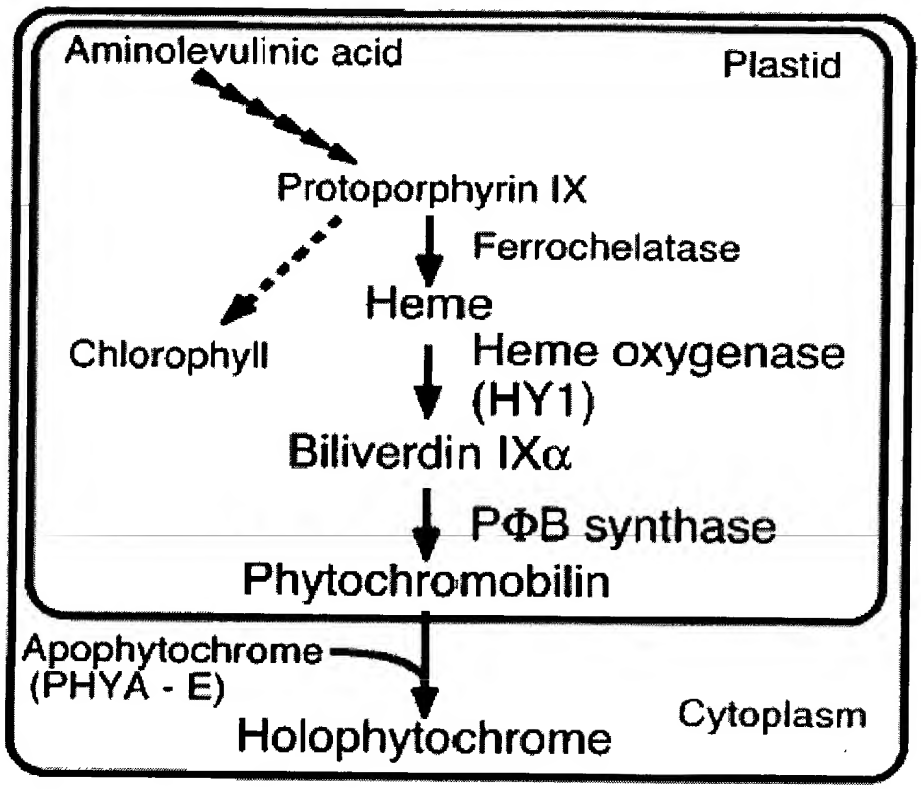

Fig. 2

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accatgactcggacggatgttgaaattcattgtcgttgccaattgcgtttgtctcactga  120
aactgtgaaaattttatctcttttatagataaAGAATCTTGCTTTTTTCAGTTTTCAGTA  180
TGAAGAAGAATTGAAGAGAGTGTCCGAGGAAGGAGACCTTTGGTTTCAGTTTGTGAGTCT  240
TGTTGTAATGGCTTTATCAATGGAGTTTGGGTTTTCAATTGGGTCATGCTTCAAGGCACC  300
       M  A  L  S  M  E  F  G  F  S  I  G  S  C  F  K  A  P
AAACCCACCTGTTCTAATCTCTGCAAGCCCTAATAAGATCAATTTCACGTTGAGAAGGAG  360
 N  P  P  V  L  I  S  A  S  P  N  K  I  N  F  T  L  R  R  R
AAAGAAAAGATTCTTACTTAGAGTCTCTGCTGTGTCGTATAAGGAATTCGCAGAGTCTGC  420
                          hy2-106 *****
 K  K  R  F  L  L  R  V  S  A  V  S  Y  K  E  F  A  E  S  A
TTTAGAAGAAACCAGGAAAAGGATCGTTCTTGAACCTTCACATCTCCAGgtatatgcaat  480
 L  E  E  T  R  K  R  I  V  L  E  P  S  H  L  Q
tacatttcgttagtgtagtgggaggattatatttctcattgtttcttgctgtgaattttg  540
ggtaaattgatttgagttgtcattaggaaccaaacaaataactttactgttatagactgc  600
ttatataagtaaaagttcagattttgtttttctaatcacgaaactgtttcagGAAAAGTA  660
                                                    E  K  Y
TAGTAGCATGACAGGACTAGATGGTAAGACCGAACTTCAAATGCTTGCTTTTAAATCTTC  720
 S  S  M  T  G  L  D  G  K  T  E  L  Q  M  L  A  F  K  S  S
AAAGATTAGACTCTTGAGGAGTATGGCAATAGAGAATGAGACAATGCAGgtttaacttca  780
 K  I  R  L  L  R  S  M  A  I  E  N  E  T  M  Q
gcagtacaaactgattgctttagtcccatttccttactttcaattgattgattgtttgta  840
          hy2-105 ***************************
tcttcgcttagGTCTTTGACTTTGCGGGTTTCATGGAGCCTGAGTATGATACTCCCATAT  900
                                          hy2-1,hy2-104  T
             V  F  D  F  A  G  F  M  E  P  E  Y  D  T  P  I  F
TCTGTGCTAACTTTTTCACATCTACCAACGTTAACATAGTTGTATTgtaagttatcttct  960
  C  A  N  F  F  T  S  T  N  V  N  I  V  V  L
agttatgctggagttatcaggtctgtattgtccaaactgatgttcaatattttactgtat 1020
```

Fig. 3B

```
gttcttctttagGGACCTTAATCCTTTGCATCAGTTGACTGACCAGACGGATTACCAAGA 1080
            D  L  N  P  L  H  Q  L  T  D  Q  T  D  Y  Q  D

CAAGTATTATAACAAGATAATGTCCATATATCACAAATATGCTGAGgtgaccacaagaat 1140
 K  Y  Y  N  K  I  M  S  I  Y  H  K  Y  A  E

acaccaaattactcaattgcaagtaaacctaatgctgaggtgtaaatgactgatcttgag 1200

atttatttgcagACTTTCCCATGGGGAGGGAAATTGACTGGTGAATCCATAAAGTTTTTC 1260
                 by2-101  A
             T  F  P  W  G  G  K  L  T  G  E  S  I  K  F  F

TCGCCTTTGGTGATGTGGACTAGGTTTTCGTCTAGCAAAGAAAAACATAAGGCTTTGTTC 1320
S  P  L  V  M  W  T  R  F  S  S  S  K  E  K  H  K  A  L  F

TCTGCGTTTCTAGAGTACTATCAGgtatatactcagcggccaaaagctaaggttttattg 1380
S  A  F  L  E  Y  Y  Q

gaaactttgactgagaatctatcatcttcttcctacagGCATGGCTTGAGATGACAATCC 1440
                                 by2-107  a
                                          A  W  L  E  M  T  I  Q

AAGTGAGGGAGGAGATGGAACCATCTCATGTGAGAGCCAATTGTGAAGCACAACACAAGT 1500
  V  R  E  E  M  E  P  S  H  V  R  A  N  C  E  A  Q  H  K  Y

ACCTGACATGGCGAGCACAAAAGgtgatttcatttccttttgtgtaatttgcatgtttga 1560
   by2-103  A
  L  T  W  R  A  Q  K

acagacactgtatctgtattgttacaatggatattgatttggtgtttgcagGATCCTGGA 1620
                                          by2-102  a
                                                D  P  G

CATGGTCTTCTTAAAAGATTAGTAGGTGAAGCAAAGGCAAAGgtataaaagatttgatcc 1680
H  G  L  L  K  R  L  V  G  E  A  K  A  K

cattagtgtccccattattaattagcttgtgaagatgttgaaaatgatttgaacaaaatc 1740

agGAGCTGCTAAGGGATTTCCTGTTCAATGGGGTGGATGAGTTAGGCACAAAAACATTCA 1800
  E  L  L  R  D  F  L  F  N  G  V  D  E  L  G  T  K  T  F  I

TTGATTACTTTCCAGAGTACCAAACAGAAGATGGAACTGTAAGCGATAAACGAAGTATCA 1860
  D  Y  F  P  E  Y  Q  T  E  D  G  T  V  S  D  K  R  S  I  I

TTGGGAAGTCATATGAAACTCGTCCATGGGATTTAACAGGACAATTTATCGGCTAACAAT 1920
  G  K  S  Y  E  T  R  P  W  D  L  T  G  Q  F  I  G  ==

GATATATGTGAACAAGTCAGATTTCAGAGTCATCAACACAAGAGGACGTGAACTTAGGGA 1980

AGTAGGAATAAGAAAGAGCAGCATGAGGAGTCTCTCAGGTCTATCTGCATTTCAAGATGA 2040

TTGTTTGAGTTACCATGCATTGTAGTTTTACAAGTGTAGCTCTCAGCCCTTCATCAAAAT 2100

GAGAATCCTCGAGTATGATATGATTTTAATGAAAATGTATTCGTCTCTacctaatcaaca 2160
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Fig. 3B cont'd.

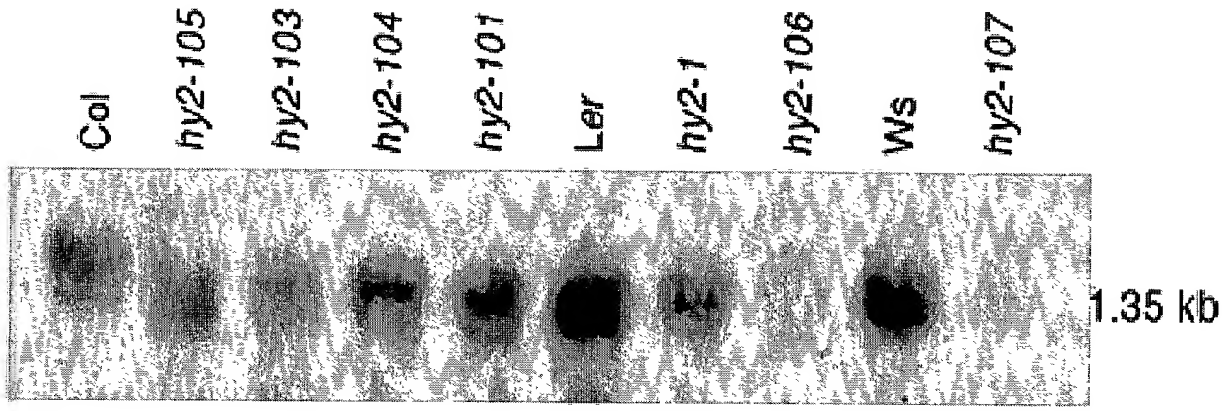


Fig. 4A

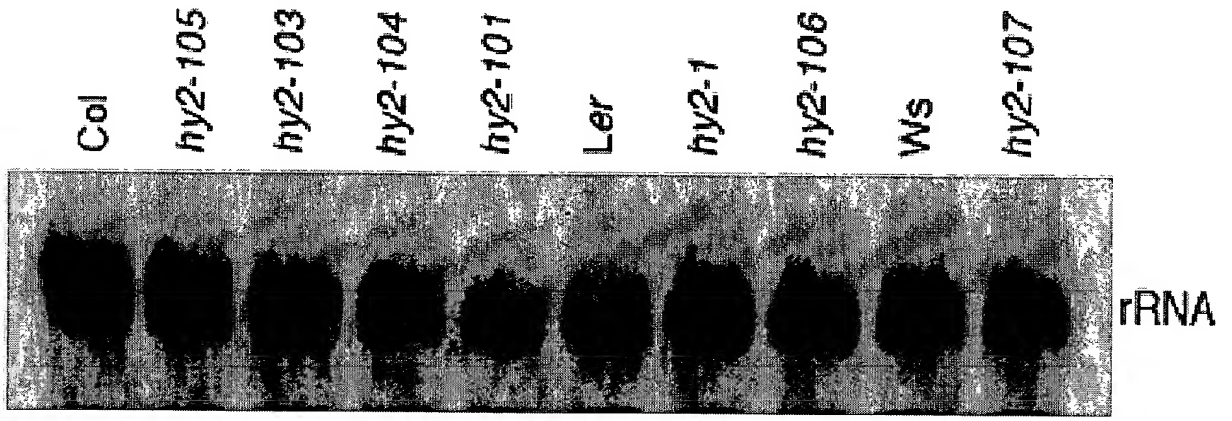


Fig. 4B

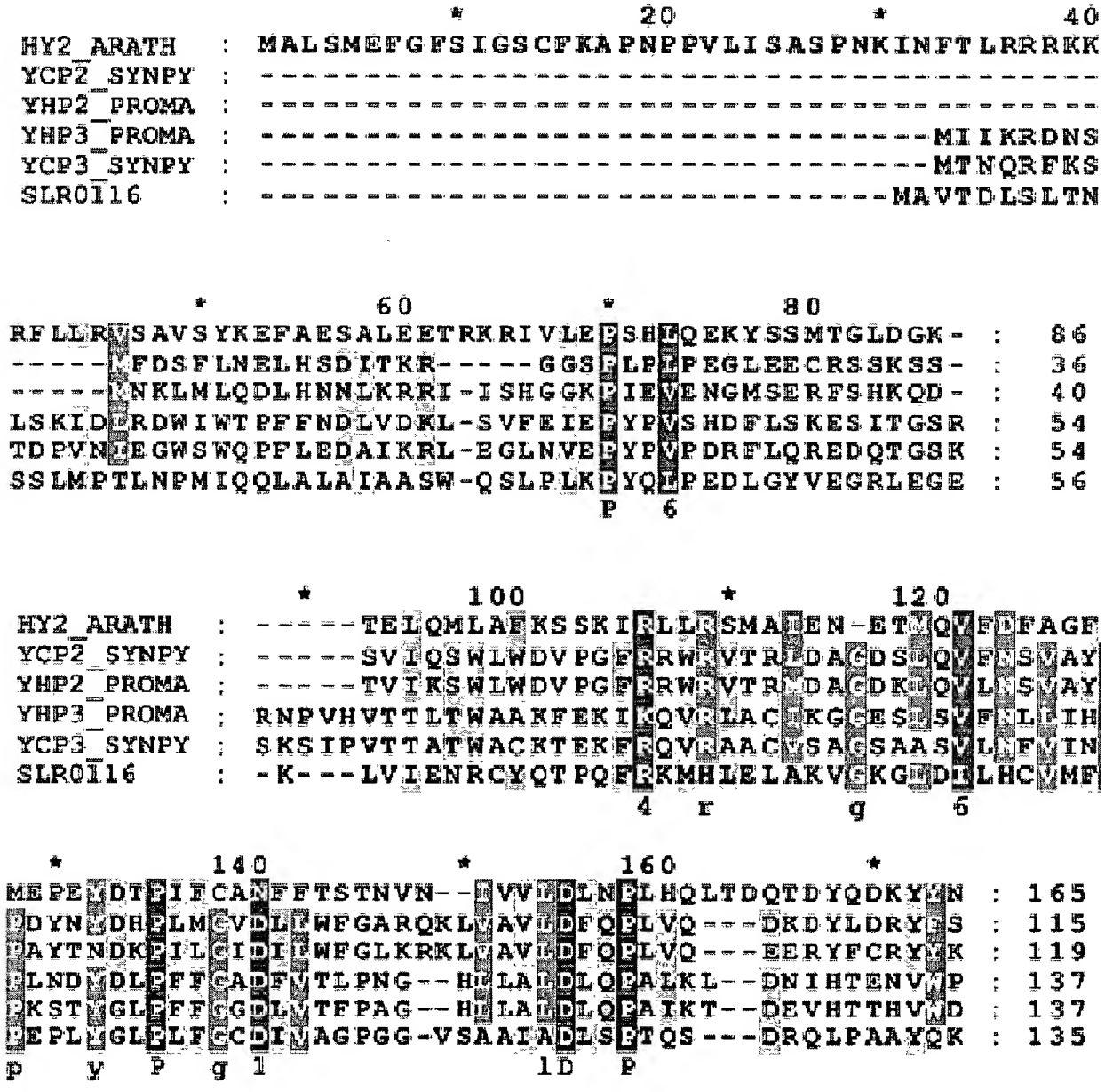


Fig. 5

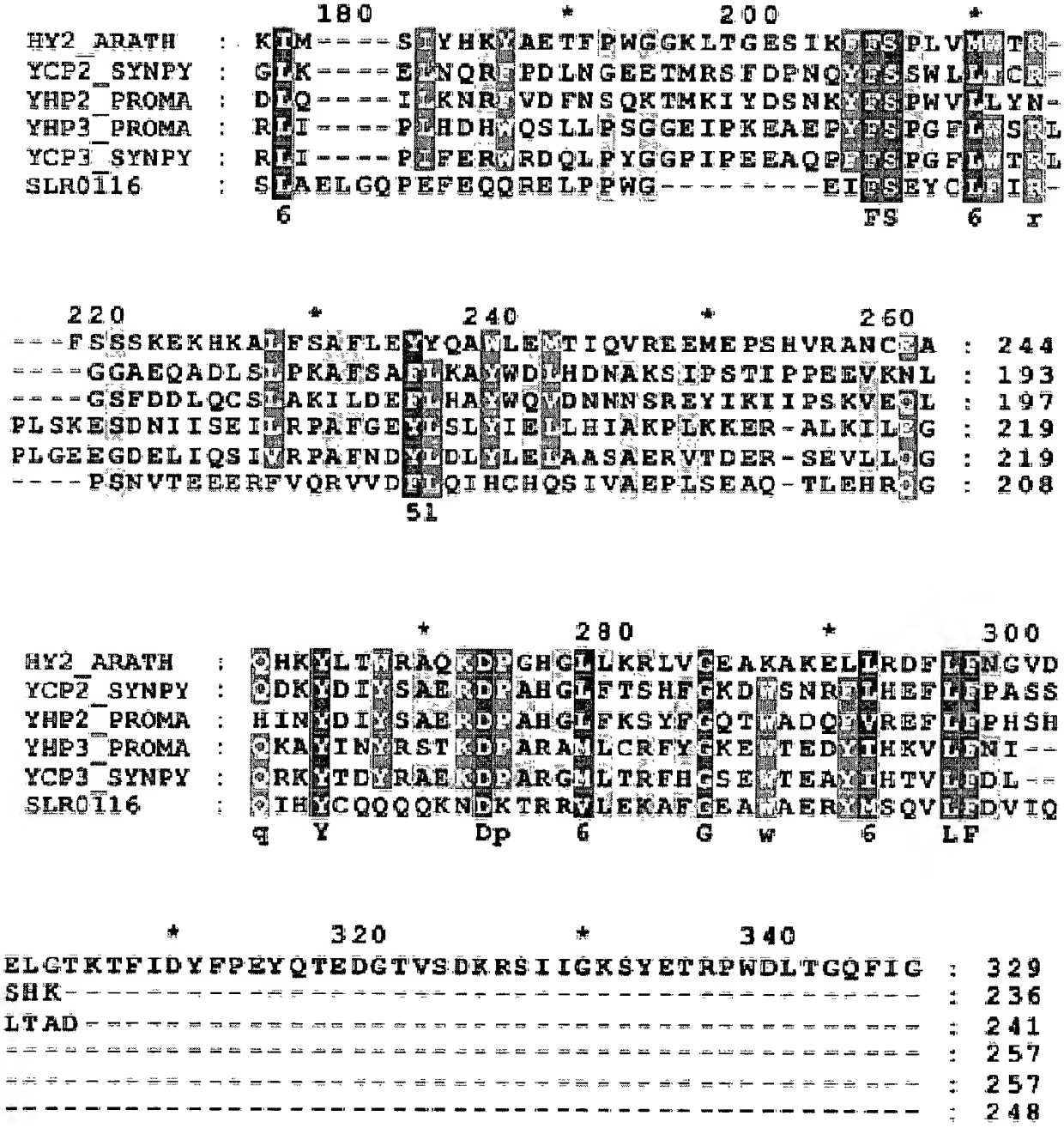


Fig. 5 cont'd.

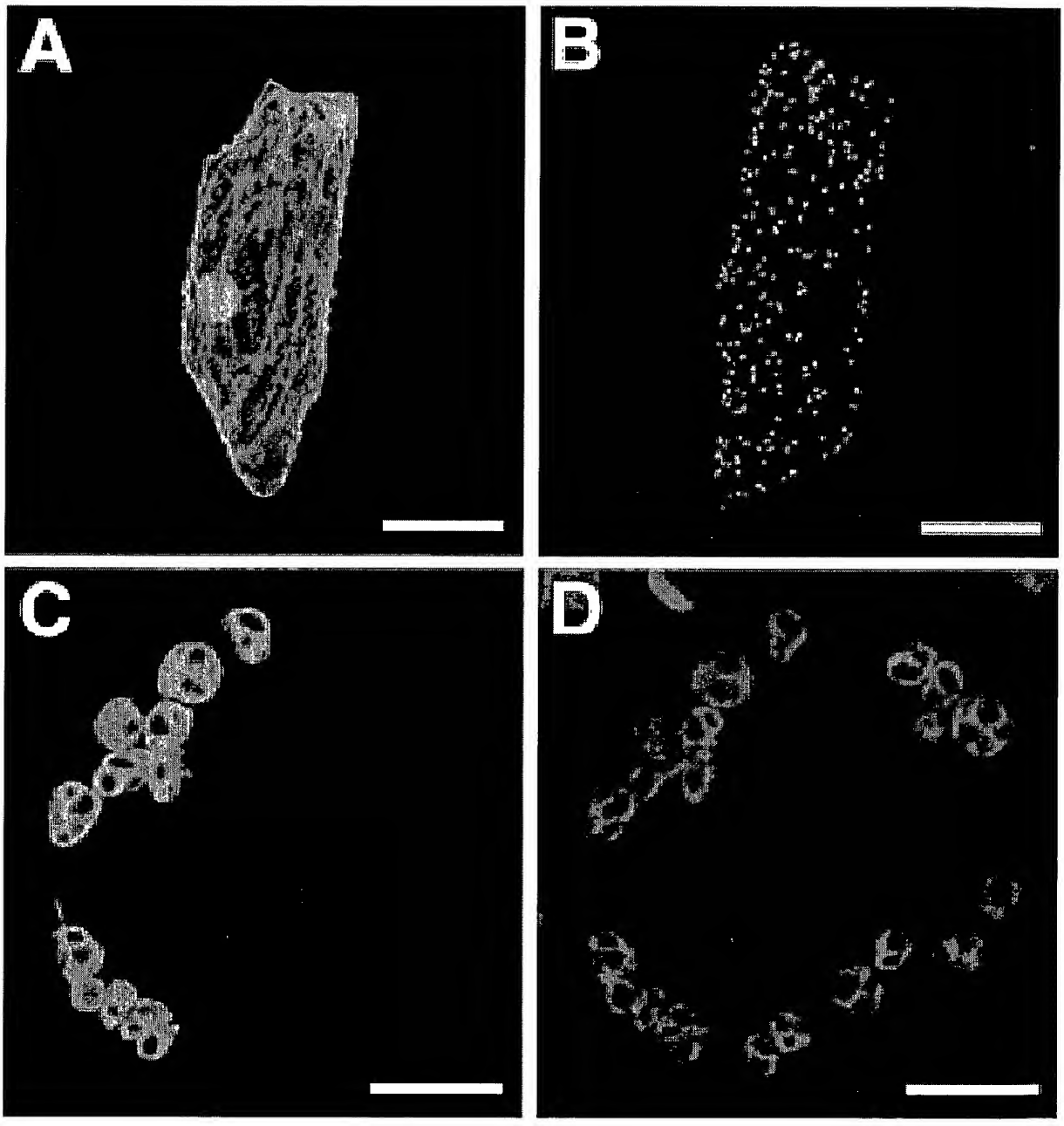


Fig. 6

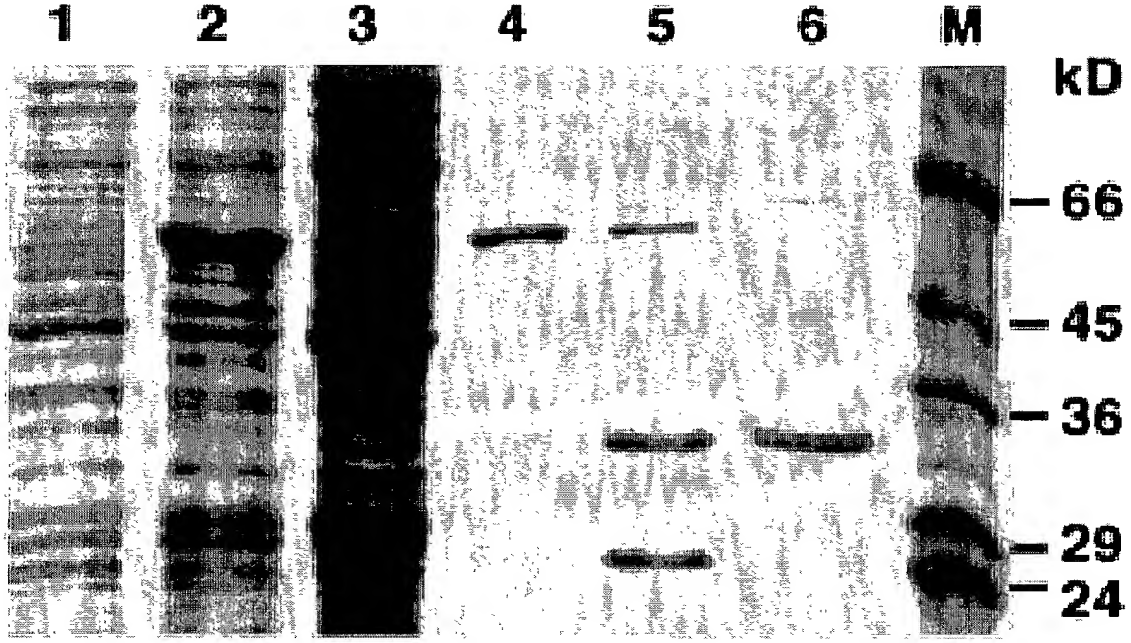


Fig. 7

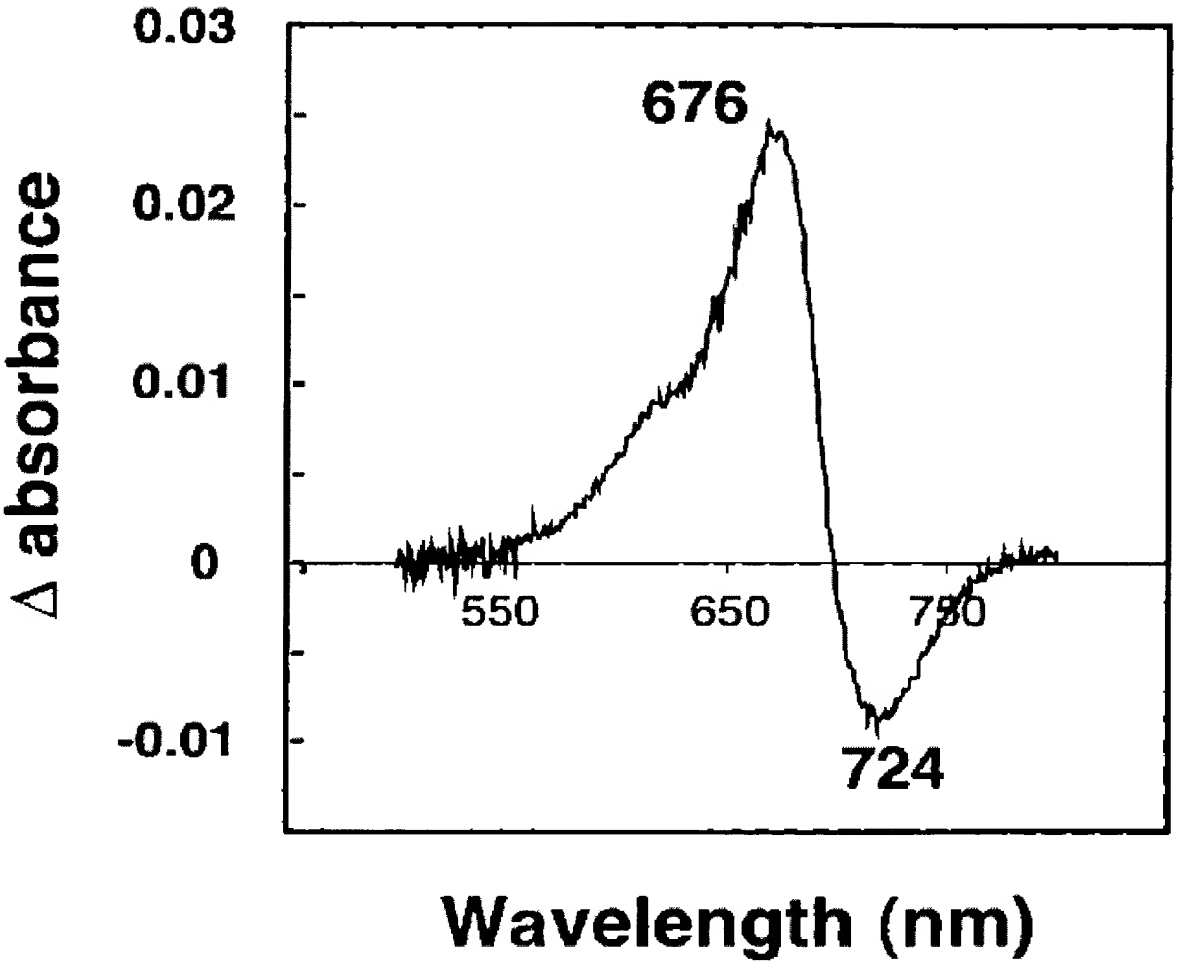


Fig. 8

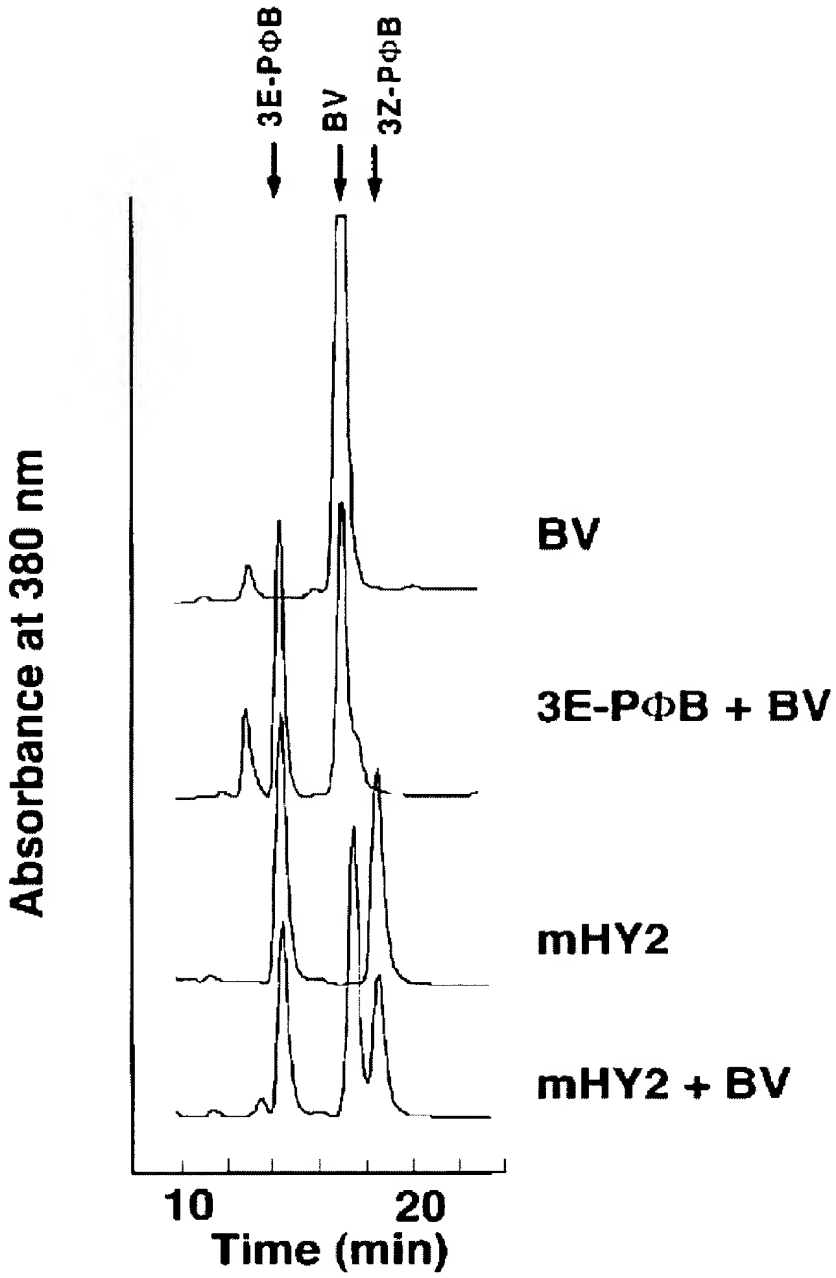


Fig. 9

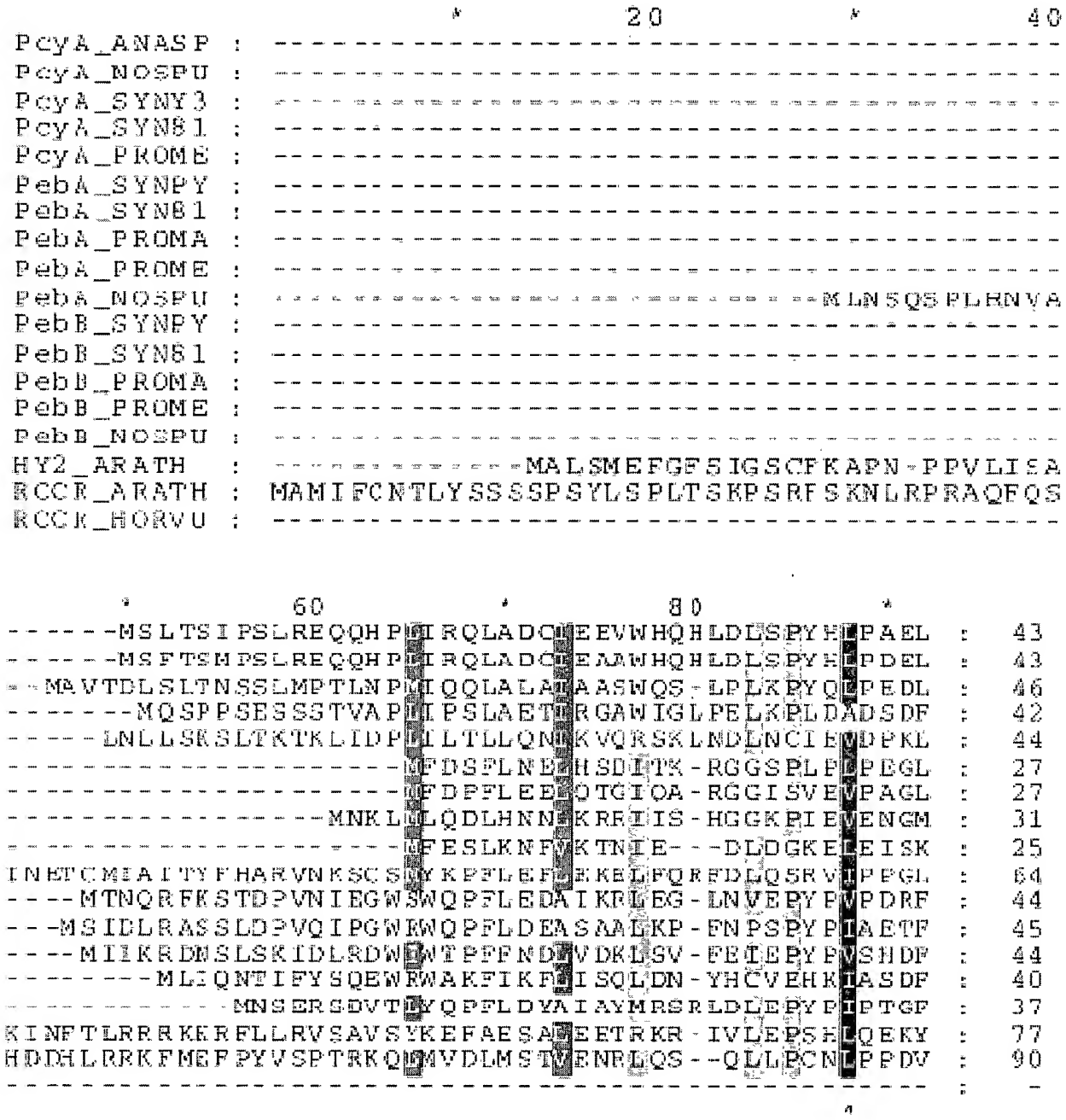
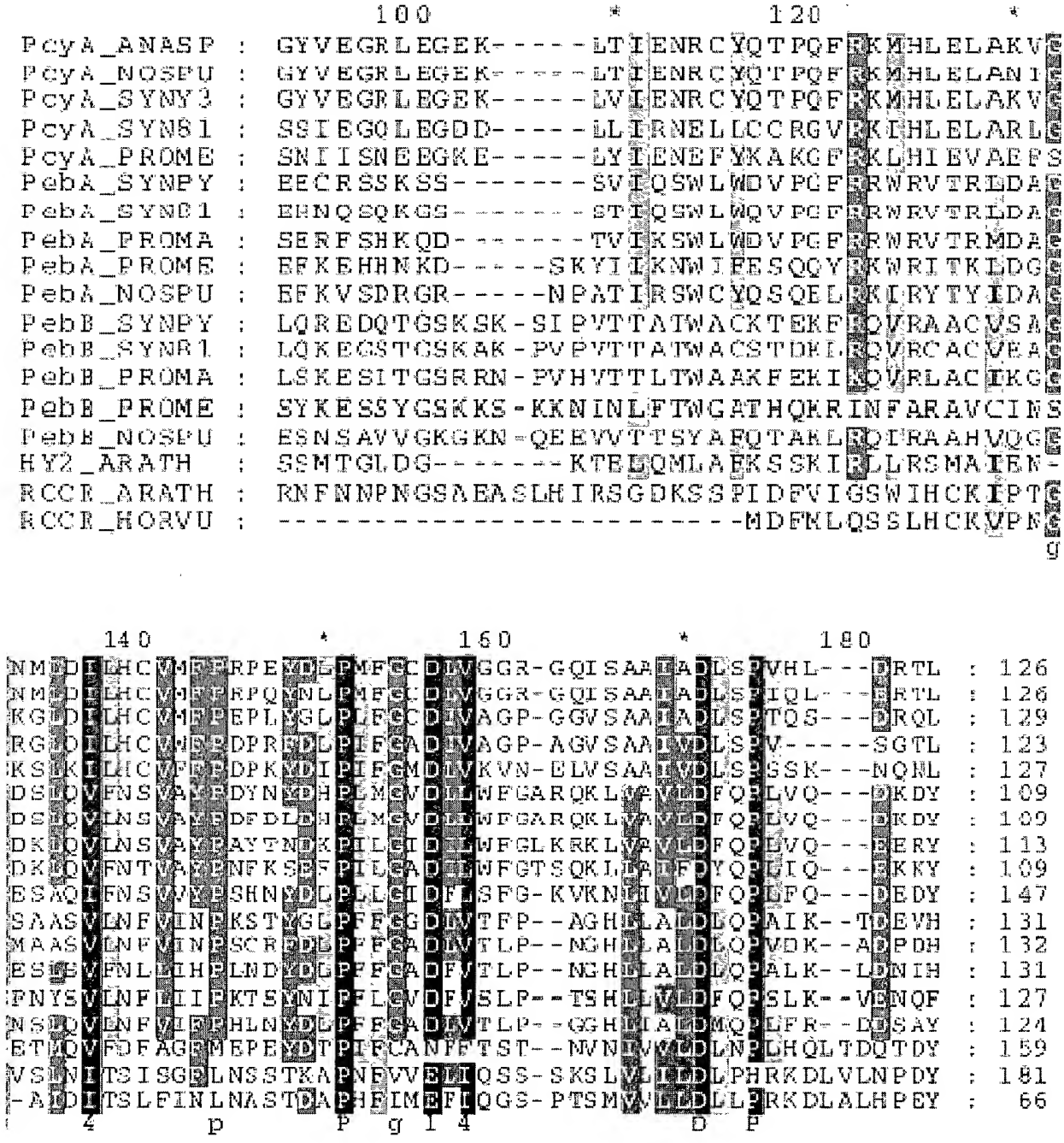


Fig. 10



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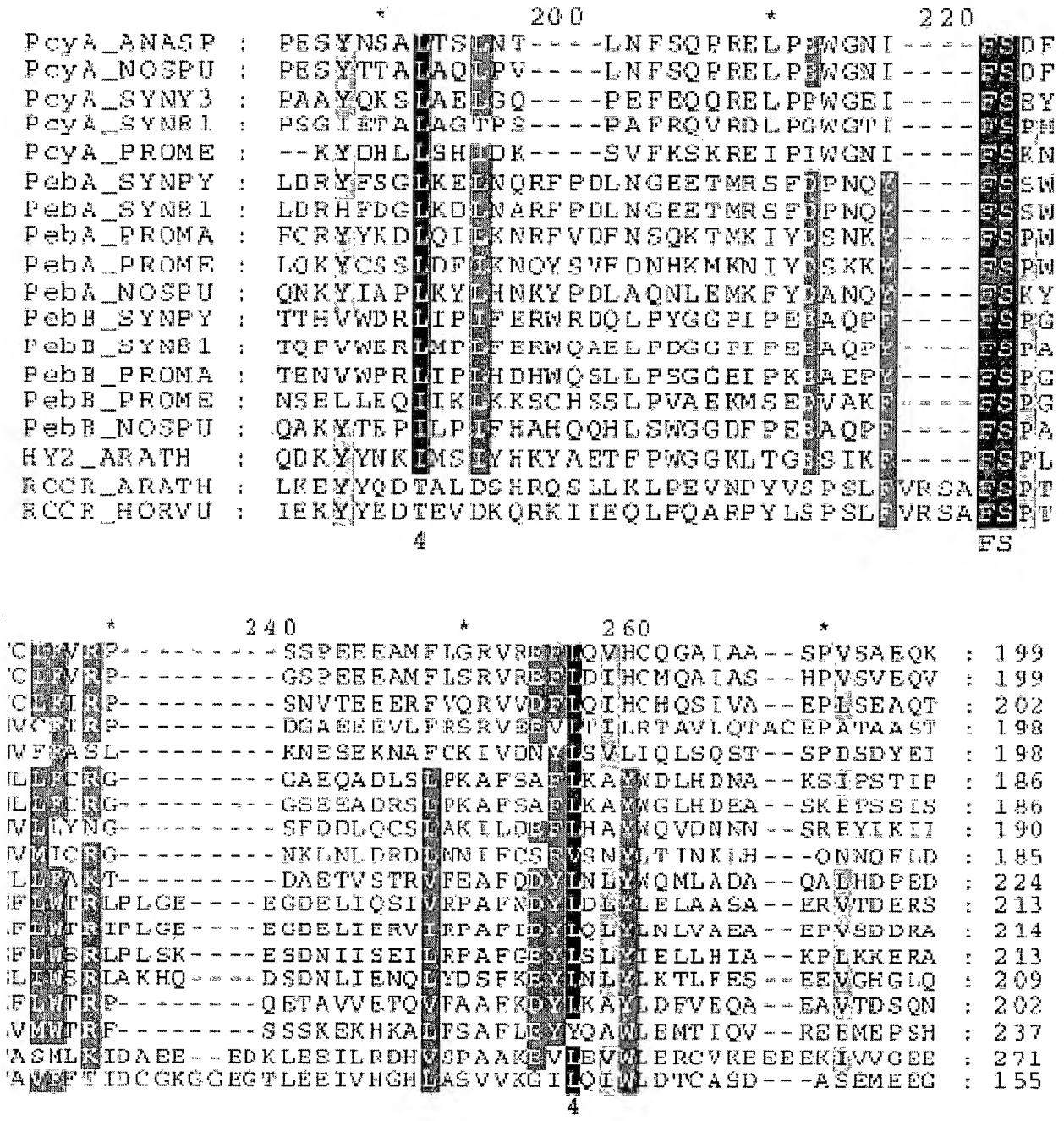

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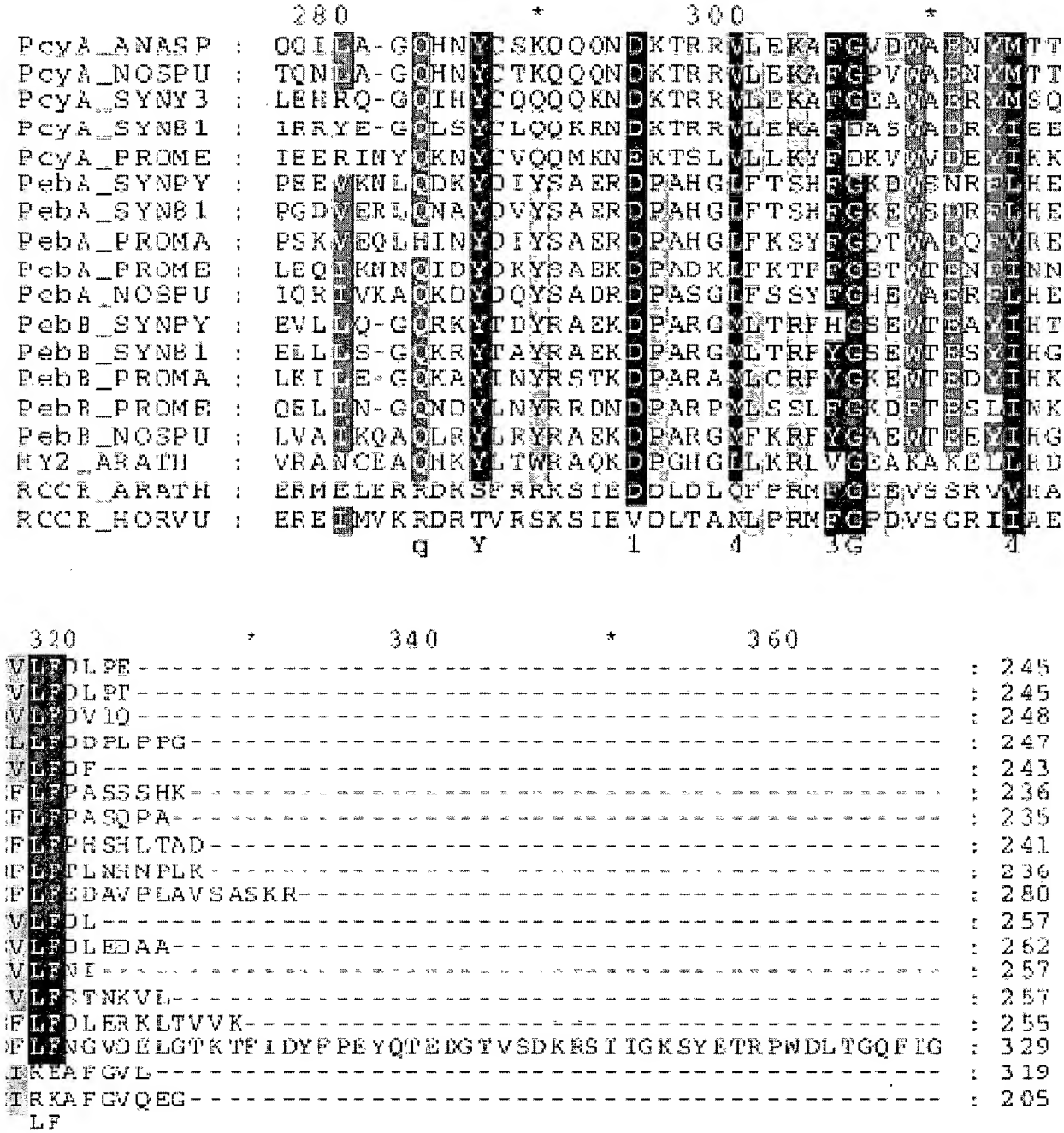

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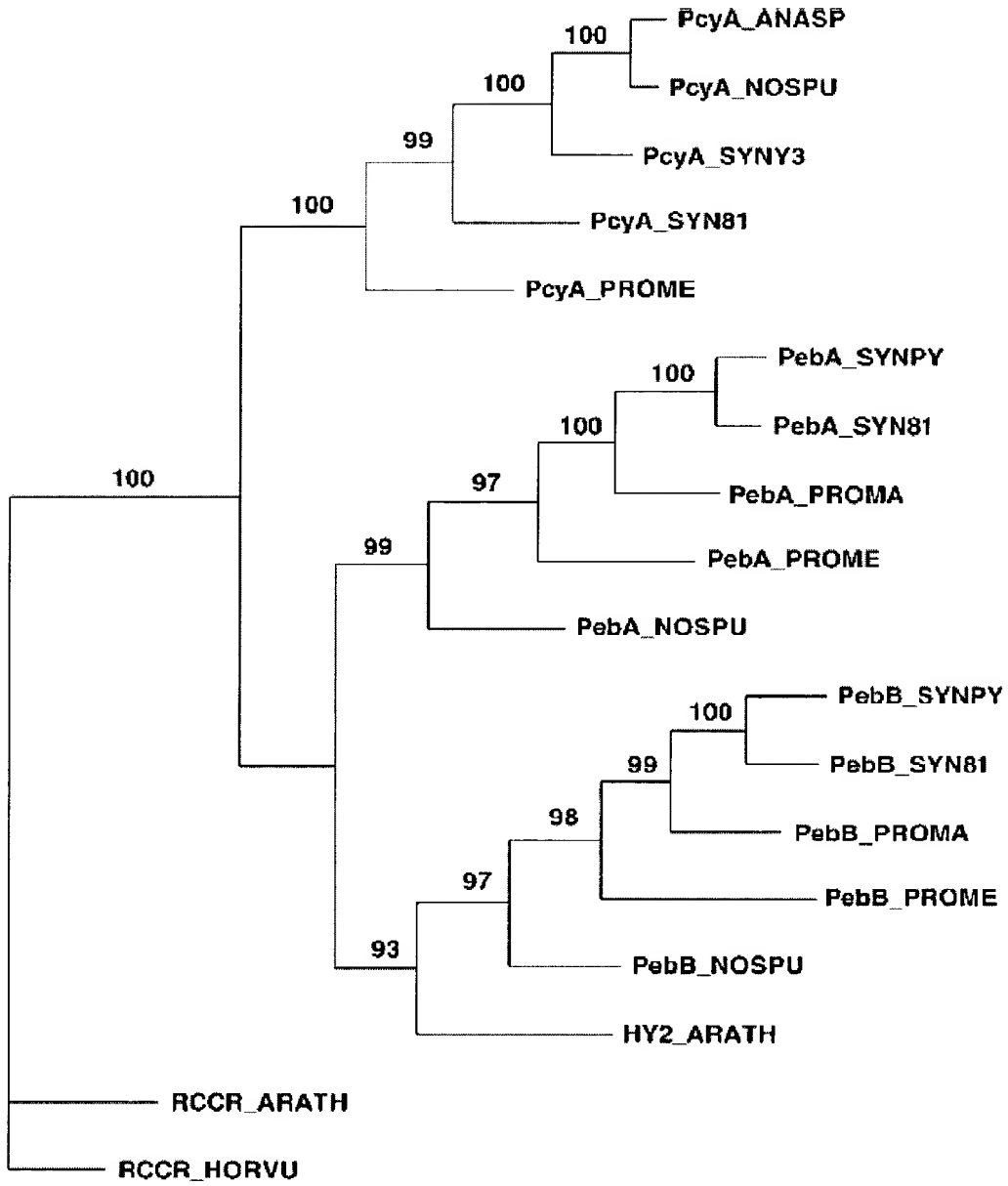

Fig. 11

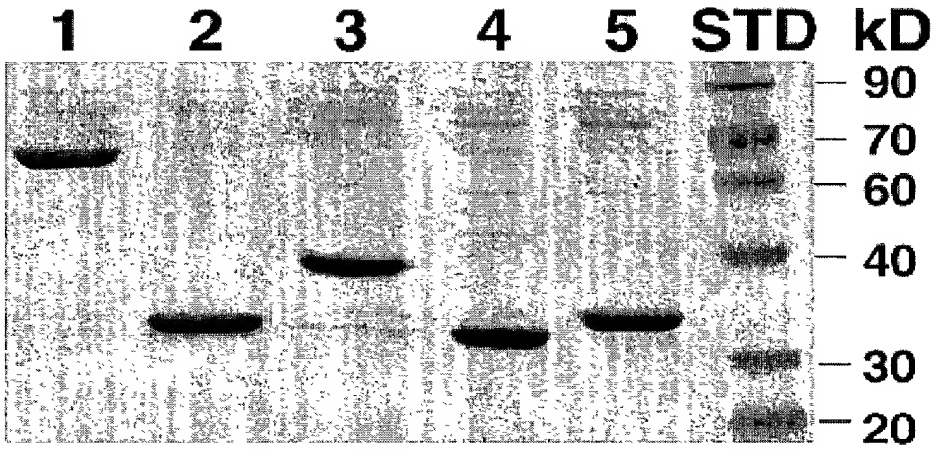

Fig. 12

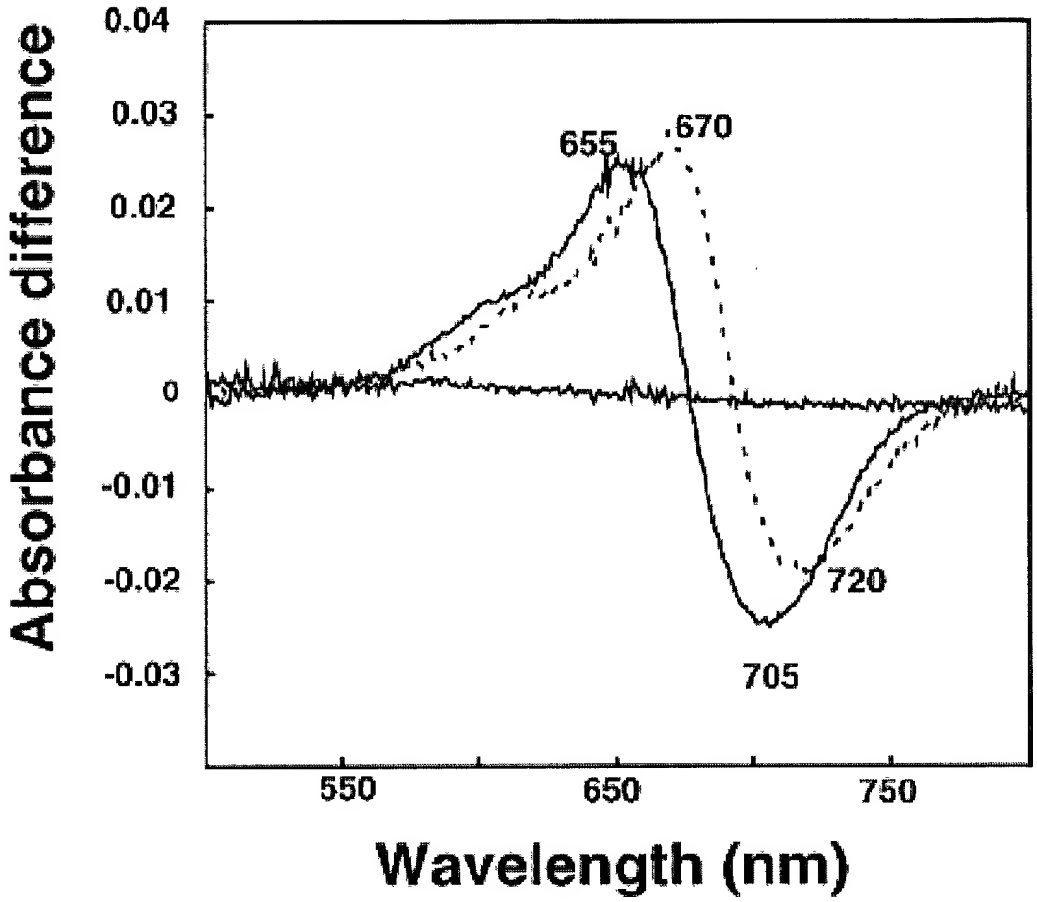

Fig. 13A

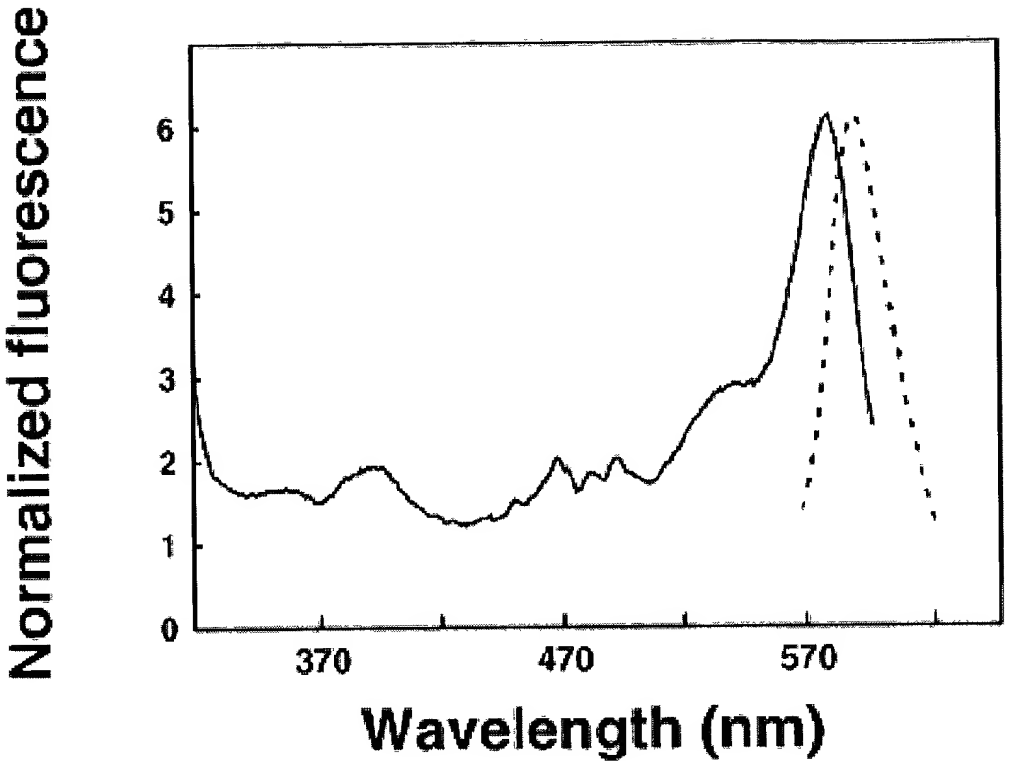

Fig. 13B

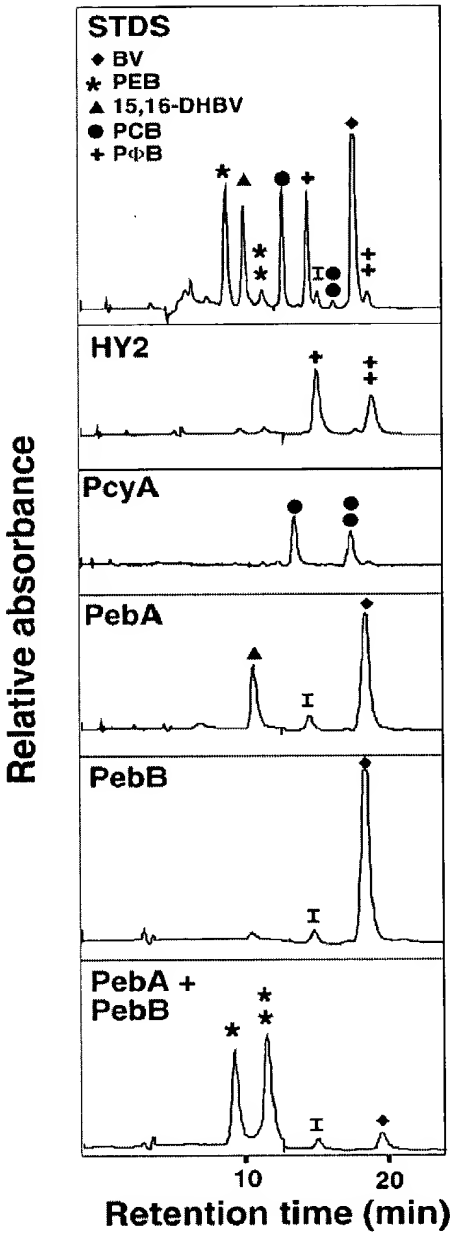

Fig. 14

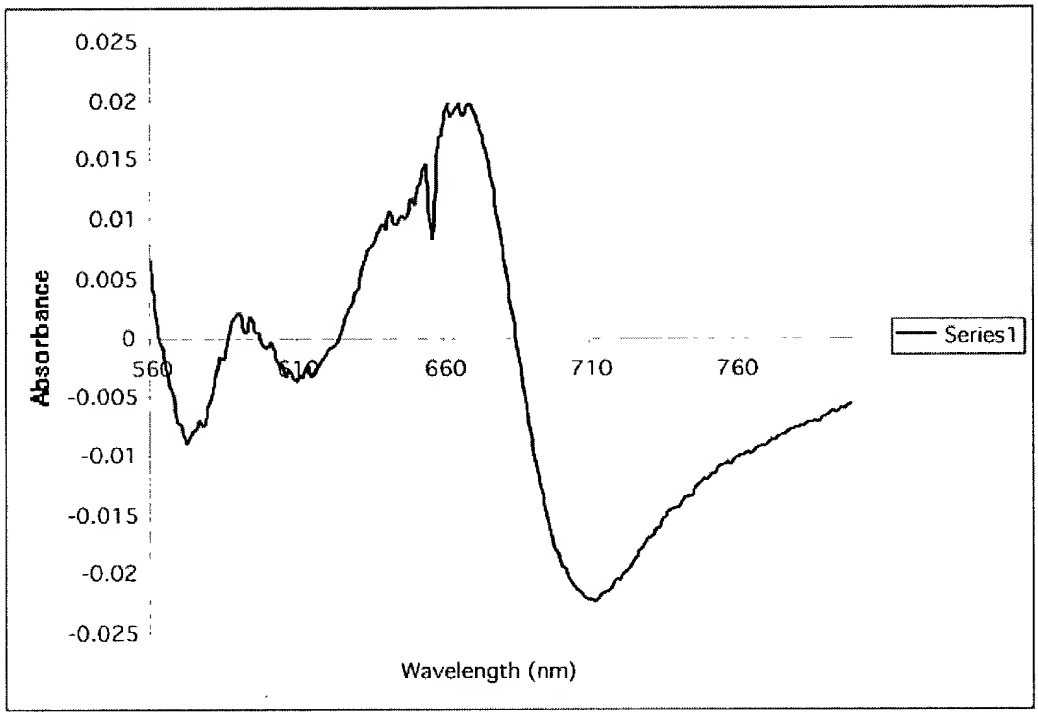

Fig. 15

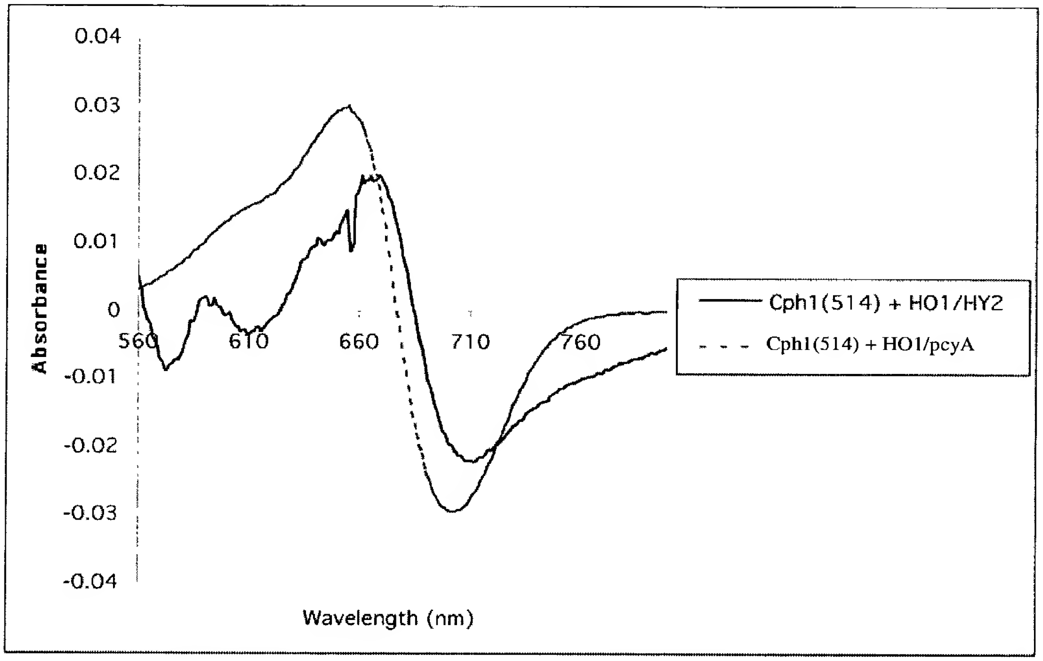

Fig. 16